INDEX

TO THE

MATHEMATICAL GAZETTE

No. 278, FEBRUARY 1944-No. 282, DECEMBER 1944

- 1. Articles.
- 2. Mathematical Notes.
- 3. Reviews and Notices.
- 4. News of Branches.
- 5. Gleanings Far and Near.
- 6. Correspondence.
- 7. Miscellaneous.

ARTICLES.

AUTHOR.	TITLE.	PAGE.
E. J. Atkinson.	Simple harmonic motion examined.	173
T. A. Brown.	Copernicus—Newton—Einstein.	4
L. J. Comrie.	Careers for girls.	90
N. M. Gibbins.	Chess in three and four dimensions. Infinite series for fifth-formers.	46 170
H. G. Green.	On the harmonic properties of two conics.	1
P. M. Grundy.	See R. S. Scorer.	
V. E. Gumbrill and C.	A. B. Smith.	
	Linear equations in integers.	22
C. W. Hansel.	The use of a mirror in the teaching of mathematics.	165
F. W. Kellaway.	British and metric systems of weights and measures.	
E. A. Maxwell.	A doubly infinite system of cyclic quadrilaterals.	51
H. W. Richmond.	Cube root.	
F. Sandon.	Some principles and practical points in preparing teaching time-tables.	176
R. S. Scorer, P. M. Gr	undy and C. A. B. Smith.	
	Some binary games.	96
C. A. B. Smith.	On the definitions of elliptic functions. See also V. E. Gumbrill and R. S. Scorer.	41
8. Weikersheimer.	Reflections on the teaching of mathematics.	12
Possible changes in the	mathematical syllabus for the School Certificate examination.	125
Discussion:		
Imeson (p. 135); (p. 137); C. O. T	125); F. C. Powell (p. 131); L. W. F. Elen (p. 133); K. R. Miss McLachlan (p. 135); K. S. Snell (p. 136); H. V. Lowry uckey (p. 138); H. H. Watts (p. 139); E. P. C. Smith (p. 141); 141); W. C. Fletcher (p. 142).	

85

C. W

W. J W. J

R. J. N. K F. W

H. I C. D B. E E. H

R. (

H. V S. M E. H

A. J. W. D. J. H. A. S. H. C. J. L. J.

F. 1 H. H. R.

The mathematical course for Sixth Form scientists. Discussion: E. H. Lockwood (p. 144); A. E. E. McKenzie (p. 145); F. C. Powell (p. 148); C. G. Nobbs (p. 150); J. T. Combridge (p. 153); A. J. G. May (p. 154); K. L. Wardle (p. 155); M. P. Meshenberg (p. 155); E. H. Neville (p. 156); S. Inman (p. 156); C. O. Tuckey (p. 157); A. J. Hatley (p. 157); Mrs. Shuttleworth (p. 157); J. W. Witherington (p. 158); L. C. Soar (p. 158); Miss E. A. G. Knowles (p. 158); K. S. Snell (p. 159).

General meeting of the Mathematical Association.

Joint report of the Council and the Executive Committee for the period 1939-1944

MATHEMATICAL NOTES.

AUTHOR.	No.	TITLE.	PAGE.
R. H. Birch.	1716	On Note 1636.	68
	1741	Root approximations.	123
	1776	A note on logarithms.	201
	1777	On Note 1741.	202
G. W. Brewster.	1744	On Note 1675: minimum deviation of a light-ray through a prism.	162
C. E. A. Burnham.	1755	On phase angle.	186
E. Carmody.	1774	A vulgar story.	199
V. T. Chari.	1768	3 Irrational numbers.	
E. V. Clark.	1735	A further note on two entries in Lewis Carroll's diary.	117
	1773	The construction of logarithm tables.	199
G. A. Clarkson.	1708	Mean values and Simpson's rule.	38
	1748	Pythagoras' theorem.	181
H. R. Cox.	1705	The framework in n dimensions.	32
J. Deans.	1753	The asymptotes of the hyperbola $x^2/a^2 - y^2/b^2 = 1$.	185
R. H. Dick.	1720	Proof of rules for approximate division.	73
	1721	Areas of similar triangles.	74
	1722	On Notes 1550, 1597.	74
M. F. Egan.	1782	Notes on matrices.	208
R. A. Fairthorne.	1742	A simple model universal joint.	
D. F. Ferguson.	1702	A note on quadrilaterals.	
C. H. Fisher.	1758	The director circle of the general conic.	
H. G. Forder.	1711	An example in abstract mathematics.	62
	1712	A Scholarship question.	63
P. Gant.	1701	The limit of $\Delta^n f(x)/\Delta x^n$.	27
N. M. Gibbins.	1727	Extension of Simson's line.	107
	1779	A "converse".	204
	1780	A close approximation to π .	205
	1781	Application of the Newton approximation to the mth root of N.	206
R. L. Goodstein.	1725	The equation $a^b = b^a$.	76
	1778	Ferry puzzles.	202
H. G. Green.	1738	3 On the construction of models of the lines of singular cubic surfaces.	
	1739	An elementary inequality.	122
	1759	The circle of curvature in Cartesian coordinates.	188
S. L. Green	1750		

PAGE.				
144	AUTHOR.	No.		PAGE.
);	C. W. Hansel.	1789	A Higher Certificate syllabus of mathematics for students of physics, chemistry, mathematics.	215
L.	W. K. Haymann.	1732	A property of the probability integral.	114
an th	W. J. Hodgetts.	1769	Feuerbach's theorem.	198
G.	11101 22-18	1770	A useful lemma and Pascal's theorem.	198
	W. H. Joint.	1766	The trigonometric ratios of angles greater than 90°.	194
85	W. II. John.	1767	Cycles.	196
14 86	R. Jones.	1707	A proof by induction of a theorem on plane curves.	36
	N. Kailasamaiyer.	1746	A proof of Pythagoras' theorem.	181
	F. W. Kellaway.	1760	On Note 1669.	190
	r. w. itchaway.	1761	The tangent to a conic.	190
PAGE.		1762	On Pascal's triangle.	190
68	H. Langdon-Davies.	1706	Motion when mass is changing.	34
123	C. D. Langford.	1717	A point in elementary trigonometry.	69
201	U. D. Lungiora.	1728	Integral cyclic figures without diameters as diagonals.	109
202	B. E. Lawrence.	1751	Pythagoras and an extension.	183
y 162	E. H. Lockwood.	1745	On Note 1675: minimum deviation of a light-ray through a prism.	162
186		1763	Lessons on two-dimensional vectors.	190
199	R. C. Lyness.	1713	Note on Turner's theorem.	64
197		1730	On bisecting a triangle by a straight line through a	112
y. 117			given point.	
199		1731	On $u_{n+1} u_{n-1} = u_n^2 + pu_n + q$.	114
38	H. V. Mallison.	1733	Points at infinity.	115
181	S. Melmore.	1718	On Note 1539.	70
32	E. H. Neville.	1709	Notes on conics. 10: Fontené's theorem.	56
185		1734	An analytical verification of Feuerbach's theorem.	116
73		1764	Inversion of order in the second derivative.	192
74 74		1765	Rough pegs, and a problem in algebra hanging on them.	193
208	A. W. Nutbourne.	1783	Two original proofs.	210
161	A. R. Pargeter.	1726	On Note 1644.	76
29	W. A. Parks.	1775	On the teaching of logarithms.	200
187	R. H. Peacock.	1788	Concerning Note 1717.	214
62	D. K. Picken.	1736	On Notes 1550 and 1597: Pythagoras' theorem.	118
63	J. Popper.	1729	Trisection of an angle.	112
27	A. S. Ramsey.	1737	Motion when mass is changing.	119
107	H. W. Richmond.	1704	Solution of a geometrical problem (Note 1672).	31
204	C. Robertson.	1787	Extension of tables of squares.	214
205 e 206	L. Roth.	1752	The solution of linear differential equations of the second order.	184
200	N. J. Rumsey.	1710	Gramophone tracking error.	59
76	F. Sandon.	1790	Random sampling numbers and the schoolmaster.	216
202	H. L. Sharman.	1723	The addition formulae.	74
r 120	H. Simpson.	1785	The invariant of three conics.	211
	R. Smart.	1703	Solution of triangles: a little-noted ambiguous case.	30
122	C. R. Spooner.	1743	Taylor's theorem.	161
188		1784	The logarithmic and exponential properties as partic-	210
183			ular cases of general relations.	

THE MATHEMATICAL GAZETTE

S. A

R. V S. S. A. V

Leed Lone Man Midl New Nort

Quee Shef Victory

N. E M. H H. V O. M E. H

Gene Bure A Hi Math Notic Wan Pape

AUTHOR.	No.		PAGE.
J. W. Stewart.	1724	"A minus and a minus make a plus".	75
J. Storr-Best.	1715	Triangle properties.	68
S. Thomson.	1719	Pythagorean angles.	71
	1740	A problem in elementary trigonometry.	123
H. Todd.	1757	Reduction of the general conic when $h^2 \neq ab$.	187
C. O. Tuckey.	1771	The Iso triangle.	198
	1772	$2\pi r$ or $2\pi r^2$.	198
G. N. Watson.	1791	On a functional equation.	218
	1792	Pascal's theorem again.	220
S. Weikersheimer.	1749	The fourth case of congruence,	182
P. C. Wickens.	1714	Integral cyclic hexagons.	65
R. S. Williamson.	1786	Some suggestions for school work, derived from ancient Egyptian mathematics.	212
C. L. Wiseman.	1754	The sign of ρ and related topics.	185
Anon.	1756	Howlers.	186
Editorial.	1747	On Note 1680.	181

REVIEWS AND NOTICES.

AUTHOR.	TITLE.	REVIEWER.	PAGE.
B. S. Alfaro.	Numeros Heronianos.	T.A.A.B.	226
H. A. Baxter.	Primer of mechanics and hydrostatics.	F. W. Kellaway.	225
J. L. Brereton.	The case for examinations.	C. O. Tuckey.	77
W. L. Cowley.	Aerodynamics of the aeroplane.	L. M. Milne-Thom.	son 124
H. C. Dent.	The new Education Bill.	E. C. Childs.	79
J. E. C. Gliddon ar	nd E. C. Hedges. Navigation for air-crews. II.	K. R. Imeson	81
E. W. Golding and	H. G. Green. Elementary practical mathematics. II. (2)	E. J. Atkinson.	124
H. G. Green.	See E. W. Golding.	27.01.22.00000	121
G. H. Hardy and V	V. W. Rogosinski.		
	Fourier series.	E. C. Titchmarsh.	164
E. C. Hedges.	See J. E. C. Gliddon.		
J. C. Hill.	See S. A. Walling.		
T. H. Ward Hill.	Illustrated calculation for the A.T.C.	K. R. Imeson.	82
Sir H. Spencer Jon			
	Copernicus.	$T.\ A.\ Brown.$	40
M. G. Kendall.	The advanced theory of statistics. I.	F. Sandon.	223
A. Nichols.	See H. Stewart.		
F. T. Oram and R.			
	Mental calculations for the Services.	E. J. Atkinson.	124
W. W. Rogosinski.			
H. Stewart and A.			
	Aircraft navigation. I. Theory. See also S. A. Walling and J. C. Hill.	K. R. Imeson.	81
T. H. Turney.	Heaviside's operational calculus made easy.	J. H. Pearce.	224
H. S. Uhler.	Original tables to 137 decimal places of natural logarithms for factors of the form $1\pm n \cdot 10^{-p}$, enhanced by auxiliary tables of logarithms of small integers.	T.A.A.B.	225
	Exact values of the first 200 factorials.	T.A.A.B.	225

1, 45, 85

21, 172

i-iv

82

89

169

175

PAGE.

75

68

71

123

187

198 198 218

220

182

65

212

185

186

181

PAGE.

226

225

81

124

164

82

40

223

124

81

224

225

225

General meeting: April 1944.

A Higher Certificate syllabus.

Mathematical films.

Paper for books.

Wanted.

Notice to new members.

Bureau for the solution of problems.